13

CATALOGUE

OF

FOSSIL FISH,

IN THE

COLLECTIONS

OF

LORD COLE

AND

SIR PHILIP GREY EGERTON,

ARRANGED ALPHABETICALLY,

WITH REFERENCES TO THE LOCALITIES, STRATA, AND PUBLISHED DESCRIPTIONS OF THE SPECIES,

BY SIR PHILIP GREY EGERTON.

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PREFACE.

In offering to my scientific friends the following "Catalogue of Fossil Fish," I feel called upon to explain why I have been induced to comprise in one Synopsis two Collections so far removed the one from the other.

My acquaintance with Lord Cole commenced at Oxford in 1826, where we were together imbued with a taste for Geological pursuits by the fascinating lectures of the Professor of that science in the University.

From that period to the present day we have been joint collectors, dividing our acquisitions to such an extent, that nearly the same species are to be found in each Cabinet. To use the language of the distinguished Icthyologist of Neuchatel,—"Les espèces qui se trouvent réunies dans les collections des deux amis Anglais sont à-peu-près les mêmes : car ils se sont ordinairement partagé les plaques correspondantes des espèces qu'ils ont pu acquerir."*

Owing to this system of partnership, the two Collections are so interwoven, that (whatever clue to scientific investigation in the study of Fossil Icthyology this Catalogue may in its present form afford,) an enumeration of the species contained in one, without reference to the other, would be manifestly incomplete and unsatisfactory.

* Agassiz, 4eme livraison, p. 45.

The names (with one exception) are given on the authority of Monsieur Agassiz, to whom I am rejoiced to have this opportunity expressing my obligations for the kindness and condescension with which he sacrificed a portion of his valuable time, in labelling the specimens of Fossil Fish in my Cabinet.

The species enumerated in the following pages amount to 195; in addition to these, are 30 well-characterized specimens, to which Monsieur Agassiz has not as yet assigned names. The capital letters prefixed to some of the species denote the Collection to which the specimens belong, when they are not to be found in both.

FOSSIL FISH,

IN

THE COLLECTIONS

OF

LORD COLE AND SIR PHILIP GREY EGERTON.

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	Acanthoderma spinosum	...	Engi-Switzerland
	* Acanus oblongus	...	Engi-Canton Glaris
C	... new species not yet named	...	Ditto
E	Acipenser, new species not yet named	Lias	Lyme Regis
	Acrodus nobilis	Ditto	Ditto
C	..... gibberulus	Ditto	Ditto
C	..... Bronnii	Ditto	Brunswick
C	. .... Guilliardetti	Ditto	Ditto
	Amblypterus eupterygius (1)	Coal Formation	Lebach
	..... lateralis (2)	Ditto	Ditto
	..... latus (3)	Ditto	Ditto
	..... macropterus (4)	Ditto	Ditto
	Anenchelum dorsale	...	Engi-Canton Glaris
	..... Glarisianum	...	Ditto
	..... heteropleurum	...	Ditto
	..... isopleurum	...	Ditto
	..... latum	...	Ditto

* This genus is found in the Pläner Kalk.

(1) Agassiz, vol. ii. page 36.
(2) .... 39.
(3) Agassiz, vol. ii. page 37.
(4) .... 31.

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	Aspidorynchus acutirostris	Oolite	Solenhofen
	.... . mandibularis	Ditto	Ditto
	Asteracanthus semiradiatus	Ditto	Stonesfield
	..... ornatissimus	Kimmeridge Clay	Shotover Hill
E	Atherina macrocephala	Tertiary	Monte Bolca
	Belonostomus Leptosteus	Oolite	Stonesfield
	Beryx ornatus* (1)	Chalk	Sussex
C	Carangopsis dorsalis (2)	Tertiary	Monte Bolca
	Carcharias grossiserratus	Ditto	Malta
	..... megalodon (3)	Ditto	Ditto
	..... productus	Ditto	Ditto
C	..... macrodon	...	North America
C	..... megalotis (4)	...	Ditto
	..... minor	...	Ditto
C	..... polygyrus	...	Ditto
C	..... subserratus	London Clay	Sheppey
	† Caturus macrodus	Oolite	Solenhofen
	... microchirus	Ditto	Ditto
	... maximus	Ditto	Ditto
C	... pachyurus	Ditto	Ditto
E	Chimæra Egertoni‡	Kimmeridge Clay	Shotover Hill
	Clupea Beurardi§	Tertiary	Mount Lebanon
	... brevis	...	Engi-Canton Glaris
	... megaptera	...	Ditto
	... Scheuchzeri (6)	...	Ditto
	... catopygoptera	Tertiary	Monte Bolca
	... tenuis	Ditto	Sicily

* Zeus Lewesiensis—Mantell.

† Originally named *Uræus* by Agassiz.

‡ Discovered and described by Doctor Buckland.

§ The *original* specimen is in the Collection of Lord Cole.

(1) Geology of Sussex
(2) Agassiz, vol. v. pl. 8.
(3) .... iii. .. 29.
(4) Agassiz, vol. iii. pl. 28.
(6) A doubtful species.—Agassiz

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
C	Cobitis cephalotes (1)	Tertiary	Œningen
C	Coilacanthus, new species	Magnesian Limesto	East Thickley
	Cottus brevis	Tertiary	Œningen
E	Ctenacanthus tenuistriatus	Mountain Limesto.	Bristol
C	Cybium macropomum	London Clay	Sheppey
	Cyclurus crassus	...	Engi-Canton Glaris
	... nemopterus	...	Ditto
	Dapædius Colei (2)	Lias	Lyme Regis
	... granulatus (3)	Ditto	Ditto
	... politus* (4)	Ditto	Ditto
	... punctatus (5)	Ditto	Ditto
	Dercetis elongatus† (6)	Chalk	Sussex
	Dipterus macrolepidotus‡ (7)	Schist	Caithness
	Ductor leptosomus (8)	Tertiary	Monte Bolca
	Esox lepidotus	Ditto	Œningen
C	Eugnathus chirotes	Lias	Lyme Regis
	..... ornatus	Ditto	Ditto
E	Fistularia magnifica	...	Engi-Canton Glaris
	..... tenuirostris	Tertiary	Monte Bolca
	Galeus aduncus (9)	Molasse	Switzerland
	... serratus	Ditto	Ditto
C	... pristodontus§ (10)	Chalk	Maëstricht
	Gasteronemus rhombeus (11)	Tertiary	Monte Bolca
	Gyrolepis Albertii (12)	Muschel Kalk	Bayreuth
C	... tenuistriatus (13)	Ditto	Ditto

* De la Beche. † Muræna Lewesiensis—Mantell.

‡ This includes the four species of Sedgwick and Murch.

§ Also found in the Chalk of Sussex.

(1) Agassiz, vol. v. pl. 50.
(2) .... page 195.
(3) .... ii. page 190.
(4) Geol. Trans. 2d series, vol. i. Agassiz, vol. ii. page 185.
(5) .... 192.
(6) Geol. of Sussex
(7) Geol. Trans. 2d ser. vol. iii.
(7) Agassiz, vol. ii. page 114.
(8) .... v. pl. 12.
(9) .... iii. .. 26.
(10) .... 26. Geol. of Sussex, pl, 32.
(11) Agassiz, vol. v. page 20.
(12) .... ii. page 173.
(13) .... 174.

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	Hemipristis serra (2)	Molasse	Switzerland
	Holocentrum pygæum (1)	Tertiary	Monte Bolca
	Hybodus curtus*	Lias	Lyme Regis
	... incurvus	Ditto	Ditto
C	... grossispinus	Ditto	Ditto
	... ornatus	Ditto	Ditto
	... reticulatus	Ditto	Ditto
	... minor	Ditto	Old Passage, Bristol
C	... marginalis	Ditto	Keynsham
	... grossiconus	Iron Sand & Oolite	Tilgate and Stonesfield
	... polyprion	Oolite	Stonesfield
	... dorsalis	Ditto	Ditto
E.	... acutus	Kimmeridge Clay	Shotover Hill
C	... plicatilis	Muschel Kalk	
C	... new species not yet named	Oolite	Purbeck
	Isurus macrurus	...	Engi-Canton Glaris
	Labrax schizurus	Tertiary	Monte Bolca
	Lamna acuminata† (3)	Chalk	Sussex
	... Mantellii (4)	Ditto	Ditto
	... appendiculata (5)	Ditto	Sussex and Maëstricht
	... contortidens	Molasse	Switzerland
	... cuspidata	Ditto	Ditto
	... denticulata	Ditto	Ditto
	... hastalis‡	Ditto	Ditto
	... quadrans	Ditto	Ditto
	... obliqua	London Clay	Sheppey

* This Icthyodorulite and reticulatus probably belong to the same species.

† Also from Quedlinburg.

‡ Also from Malta.

(1) Agassiz, vol. iii. pl. 27.
(2) .... iv. pl. 14.
(3) Geology of Sussex, pl. 32.
(4) ....
(5) ....

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	... plicata	London Clay	Sheppey
	... trigonodus	Tertiary	Malta
	... xiphodon	Ditto	Ditto
	... new species not yet named	Molasse	Switzerland
E	Lebias crassicaudus	Tertiary	Sinigaglia
	Leptacanthus semistriatus	Oolite	Stonesfield
	Lichia prisca (1)	Tertiary	Monte Bolca
	Lepidotus fimbriatus	Lias	Lyme Regis
	..... Fittoni* (2)	Tilgate Beds	Tilgate Forest
	..... Mantellii* (3)	Ditto	Ditto
E	..... maximus	Oolite	Stonesfield
	..... new species not yet named	Ditto	Ditto
	..... minor (4)	Ditto	Portland
	..... notopterus (5)	Ditto	Solenhofen
C	..... new species not yet named	Lias	Boulogne
	Leptolepis Bronnii	Lias	Lyme Regis
	..... caudalis	Ditto	Ditto
C	..... contractus	Oolite	Solenhofen
	..... dubius	Ditto	Ditto
	..... Knorrii	Ditto	Ditto
	..... sprattiformis	Ditto	Ditto
C	Leuciscus gracilis	Tertiary	Wurtemberg
	..... macrurus	Papier Kohl	Rhine
	..... papyraceus (6)	Ditto	Ditto
	..... Œningensis (7)	Tertiary	Œningen
	Macropoma Mantellii† (8)	Chalk	Sussex

* Lepisosteus Fittoni.—Mantell.

† Amia Lewesiensis.—Mantell.

(1) Agassiz, vol. v. pl. 11, 11 a.
(2) .... ii. pl. 30, c. b.
(3) .... c.
(4) .... 34.
(5) Agassiz, vol. ii. pl. 34.
(6) .... v. .. 56.
(7) .... 57—58.
(8) Geology of Sussex, page 239

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	Mallotus villosus fossilis ?	...	Greenland
	Megalicthys Hibbertii (1)	Coal Formation	North Stafford
E	Megalops priscus	London Clay	Sheppey
	Microdon hexagonus	Oolite	Solenhofen
C	... new species not yet named	Ditto	Stonesfield
C	Mugil princeps	Tertiary	Aix
	Myliobates angustus	London Clay	Sheppey
	..... subarcuatus	Ditto	Ditto
	..... Studeri	Molasse	Switzerland
C	Myriacanthus paradoxus	Lias	Lyme Regis
	Myripristis homopterygius	Tertiary	Monte Bolca
E	* Notidanus primigenius (2)	Molasse	Switzerland
	Odontaspis raphiodon†	Chalk	Maëstricht
E	Ophiopsis dorsalis	Oolite	Purbeck
C	Osmeroides Mantellii‡ (3)	Chalk	Sussex
E	Osteolepis arenatus (4)	...	Gamrie
	Palæoniscus comptus (5)	Magnesian Limesto	East Thickley
	..... elegans (6)	Ditto	Ditto
C	..... longissimus (7)	Ditto	Ditto
	..... Frieslebeni (8)	Kupfer Schiefer	Eisleben
	..... magnus (9)	Ditto	Ditto
E	..... Egertoni	Coal Shale	North Stafford
	..... Blainvillei (10)	...	Muse, near Autun
	..... Duvernoy (11)	Coal Formation	Zweibrücken
	..... macropomus (12)	Zechstein	Ilmenau

* This genus is also found in the Chalk of Sussex.

† Also from the Chalk of Sussex. ‡ Salmo Lewesiensis.—Mantell.

[1] Trans. Royal Soc. Ediu. v. 13
[2] Agassiz, vol. iii. pl. 27
[3] Geol. of Sussex, page 235
[4] Agassiz, vol. ii. page 122
[5] 97
[6] 95
[7] Agassiz, vol. ii. page 100
[8] 66
[9] 78
[10] 48
[11] 45
[12] 81

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
C	Palæorynchum Colei	...	Engi-Canton Glaris
	..... Egertoni	...	Ditto
	..... Glarisianum	...	Ditto
	..... latum	...	Ditto
	..... medium	...	Ditto
	..... microspondylum	...	Ditto
	..... longirostris	...	Ditto
	Palimphyes brevis (1)	...	Ditto
	..... longus (2)	...	Ditto
	Pholidophorus Bechei (3)	Lias	Lyme Regis
	..... latiusculus	Ditto	Ditto
	..... limbatus	Ditto	Ditto
	..... onychius	Ditto	Ditto
	..... latimanus	Oolite	Solenhofen
E	..... radiatopunctatus	Ditto	Ditto
C	..... taxis	Ditto	Ditto
	..... uræoides	Ditto	Ditto
	Placodon gigas	Muschel Kalk	Bayreuth
E	..... Münsteri	Ditto	Ditto
C	Platysomus gibbosus (4)	Kupfer Schiefer	Mansfeld
E	Pleionemus macrospondylus	...	Engi-Canton Glaris
	Pleuracanthus serratus	...	Ditto
	Psammodus magnus	Oolite	Stonesfield
	..... tenuis	Ditto	Ditto
	..... reticulatus	Kimmeridge Clay	Shotover Hill
	..... porosus	Mountain Limesto.	Bristol
E	Pterygocephalus paradoxus	Tertiary	Monte Bolca
C	Ptycholepis Bollensis	Lias	Lyme Regis
	Ptycodus altior (5)	Chalk	Sussex
	..... decurrens (5)	Ditto	Ditto

(1) Agassiz, vol. v. pl. 20.
(2) .... 19.
(3) Geol. Trans. 2d series, vol. i.
(4) Agassiz, vol. ii. page 164.
(5) Geol. of Snssex, pl. 32.

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	..... latissimus (1)	Chalk	Sussex
	..... mamillaris (1)	Ditto	Ditto
	..... polygyrus (1)	Ditto	Ditto
	Pycnodus Bucklandii	Oolite	Stonesfield
	..... parvus	Ditto	Ditto
C	..... new species not yet named	Ditto	Ditto
	..... microdon	Tilgate Beds	Tilgate Forest
	..... gigas	...	Jura
C	Pygæus, new species not yet named	Tertiary	Monte Bolca
	Semionotus rhombifer	Lias	Lyme Regis
	... new species not yet named	Lias Schist	Seefeld, Tyrol
	Smerdis micracanthus (2)	Tertiary	Monte Bolca
	... minutus	Ditto	Aix
	Sphærodus gigas	Oolite	Stonesfield
C	... new species not yet named	...	Jura
C	Sparnodus altivelis	Tertiary	Monte Bolca
E	..... macropthalmus	Ditto	Ditto
E	..... micracanthus	Ditto	Ditto
C	Sphyræna gracilis	Ditto	Ditto
C	Spinacorhinus polyspondylus*	Lias	Lyme Regis
C	Tetragonolepis confluens (3)	Ditto	Ditto
	..... heteroderma	Ditto	Ditto
	..... Leachii	Ditto	Ditto
	..... pholidotus	Ditto	Ditto
C	..... pustulatus	Ditto	Ditto
	..... speciosus (4)	Ditto	Ditto
E	..... radiatus	Ditto	Ditto

* Squaloraia dolicognathus.—Dr. Riley.

(1) Geol. of Sussex, pl. 32.
(2) Agassiz, vol. iv. page 33.
(3) Agassiz, vol. ii. page 199.
(4) ....

	GENUS AND SPECIES.	STRATA.	LOCALITIES.
	Tetrapterus priscus	London Clay	Sheppey
C	Thrissops salmoneus	Oolite	Solenhofen
	Tinca furcata (1)	Tertiary	Œningen
E	Vomer longispinus (2)	Ditto	Monte Bolca

SPECIMENS UNDETERMINED.

	New genus allied to Palimphyes	...	Engi-Canton Glaris
	New genus allied to Scopelus	...	Ditto
E	Placoid fish not yet named	Coal Shale	North Stafford
E	Ditto ditto	Ditto	Ditto
E	Ditto ditto	Ditto	Ditto
E	Ditto ditto	Ditto	Ditto
	Scomberoid not yet named	London Clay	Sheppey
C	Ten species not yet named	Ditto	Ditto
C	New genus not yet named	Tertiary	Œningen

[1] Agassiz, vol. v. pl. 52. | [2] Agassiz, vol. v. page 28.

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